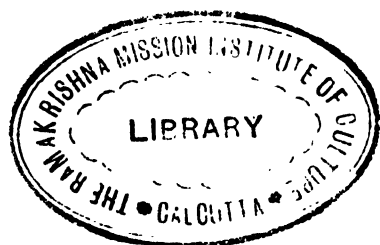


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THE
Surgical Instruments of the Hindus

THE SURGICAL INSTRUMENTS OF THE HINDUS

WITH

**A Comparative Study of the Surgical Instruments of
the Greek, Roman, Arab and the Modern
European Surgeons**

BY

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Lecturer on Surgery, Calcutta Medical School and College of Physicians
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Life Member and Professor of Botany, Indian Association
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Calcutta University.*

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PREFACE

Much trouble has been taken with our illustrations, but the author is fully conscious of their many defects. I am greatly indebted to several authors mentioned in the legends to the plates as the readers will find certain of their illustrations copied in this volume. It was found necessary in a comparative study of the surgical instruments used by the different nations of the world. It has been my wish to render due credit to all persons for the illustrations by which they may severally have contributed to the advancement of our knowledge of the subject, and I have never assumed to myself drawings, which belong to others. For those illustrations, not otherwise acknowledged, the author is solely responsible.

For his skill and patience in drawing and printing these figures I am glad to take this opportunity of thanking Mr. K. V. Seyne.

The author deems it a pleasant duty to express his thanks to the University of Calcutta for the liberality displayed in the matter of illustrations.

80, RUSSA ROAD NORTH, }
Calcutta, February, 1914. } G. N. MUKHOPĀDHYĀYA.

ABBREVIATIONS

- Adams : The Genuine Works of Hippocrates. Translated by Francis Adams, LL.D. in two volumes. (Sydenham Society).
- A. H. : Catalogue of Surgical Instruments and Appliances. Allen and Hanburys Ltd. 1903.
- A. S. : Catalogue of Surgical Instruments and Appliances. Arnold and Sons. 1895.
- Anderson : See Wellcome.
- B. B. : Surgical Instruments and Appliances. Burgoyne, Burbidges & Co.
- C. C. G. : Collection de Chirurgiens Grecs. Bibliothèque Nationale. Paris.
- Erichsen : The Science and Art of Surgery. By Sir John Eric Erichsen Bt., F.R.S., LL.D. Tenth Edition. 1895.
- Esmarch : The Surgeon's Handbook of the Treatment of Wounded in War. By Dr. Friedrich Esmarch.
- Heath : Minor Surgery and Bandaging. By C. Heath, F.R.C.S. Second Edition.
- I. M. G. : Indian Medical Gazette, 1904.
- K. S. : Catalogue of Surgical Instruments. Kny-Scheerer & Co.
- Milne : Surgical Instruments in Greek and Roman Times. By T. S. Milne, M.A., M.D., 1907.
- Porter : The Surgeon's Pocket-Book. The Best Treatment of Wounded in War. By Surgeon-Major T. H. Porter. 1891.
- Princep : Princep's (Thomas') Indian Antiquities.

- Swain :** Surgical Emergencies. By W. P. Swain,
F.R.C.S. Third Edition. 1880.
- Thakore Saheb :** History of Aryan Medical Science. By H. H.
Sir Bhagvat Singh Jee., K.C.I.E., M.D.,
D.C.L., LL.D., F.R.C.P.E. Thakore Saheb
of Gondal. 1896.
- Waggett :** Diseases of the Nose. By E. B. Waggett,
M.A., M.B., B.C. 1907.
- Wellcome :** Third Report of the Wellcome Research
Laboratories at the Gordon Memorial College,
Khartoum.
- White :** The Veterinary Art. By James White. 1851.
-

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	157	„	LXXIX	„	5	„	5	before	—.

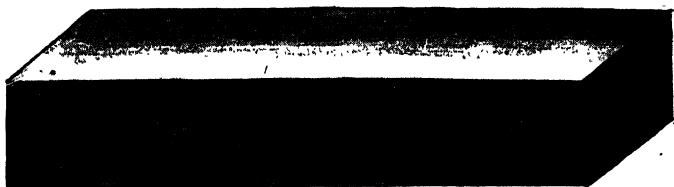
THE SURGICAL INSTRUMENTS OF THE HINDUS.

PLATE I.

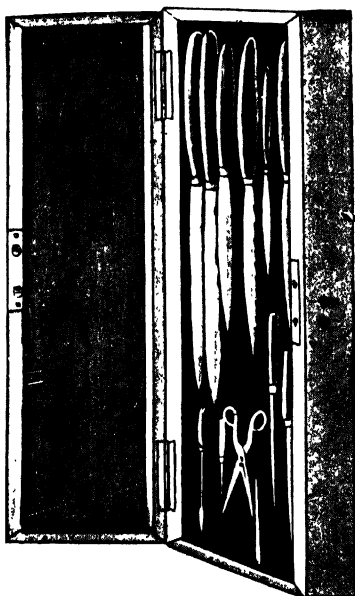
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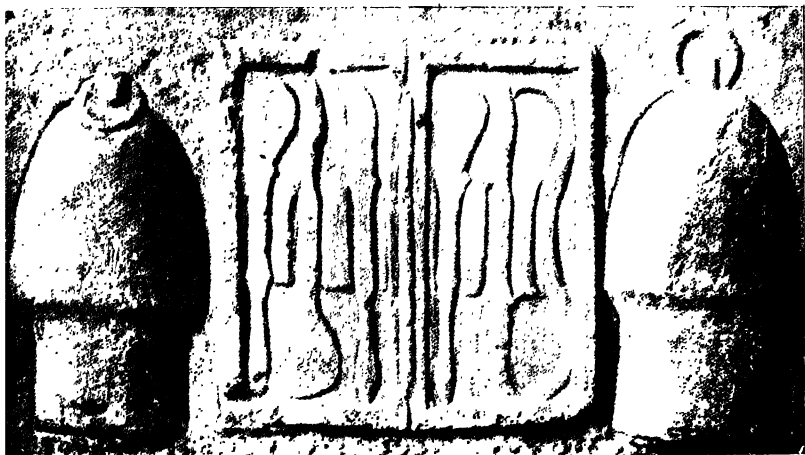
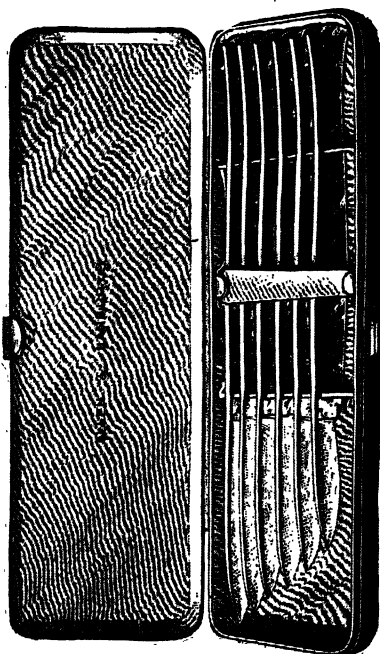
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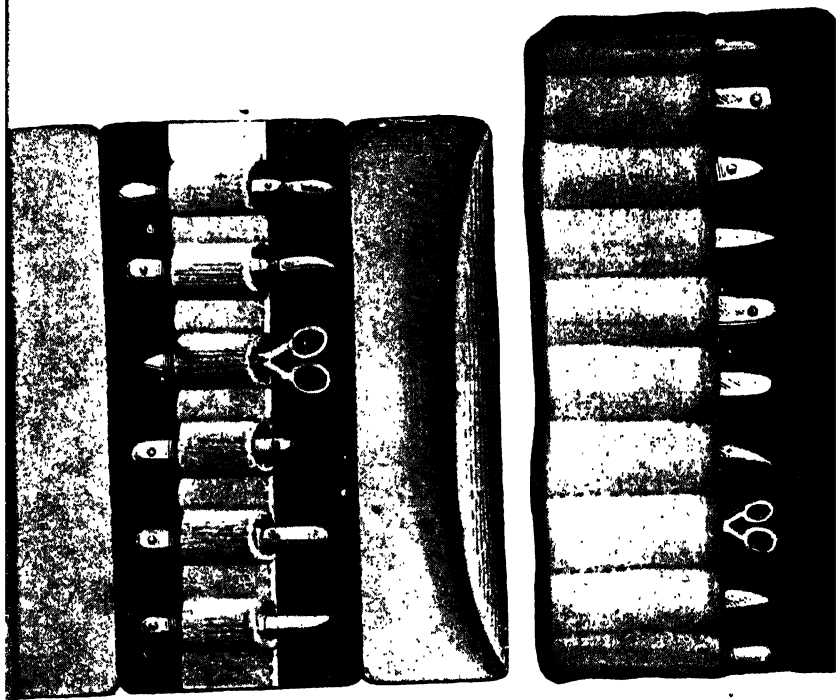
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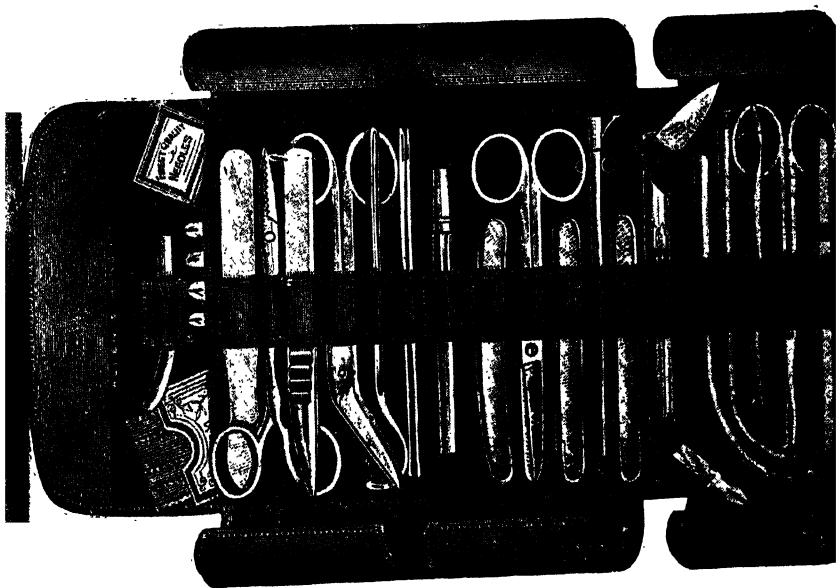
The Surgical Instruments of the Hindus.

Plate II.



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PLATE III.

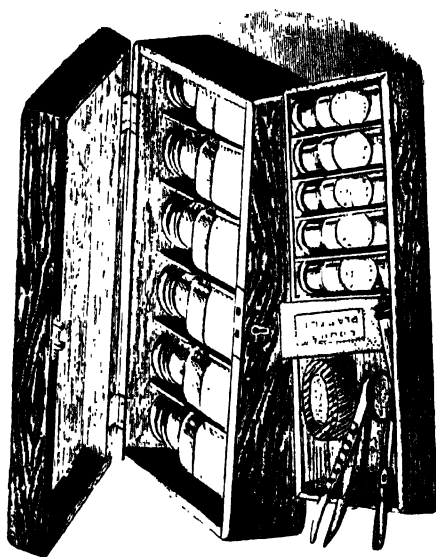
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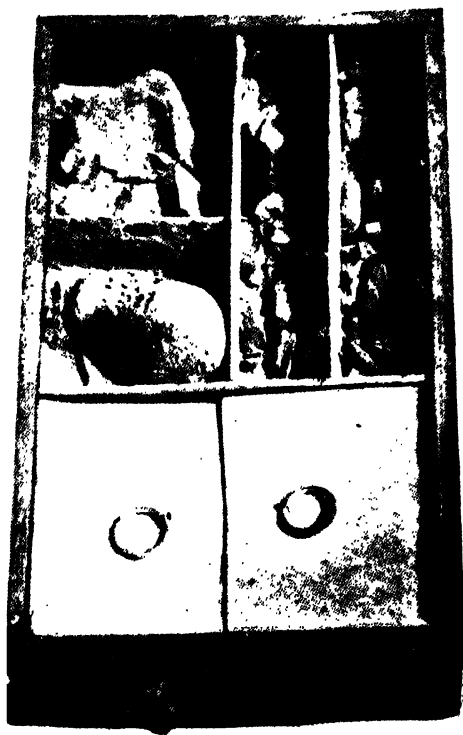
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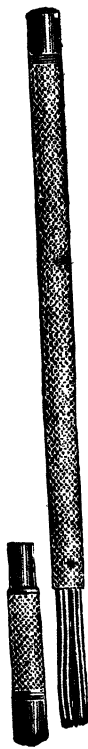
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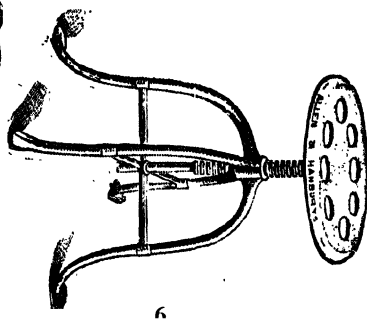
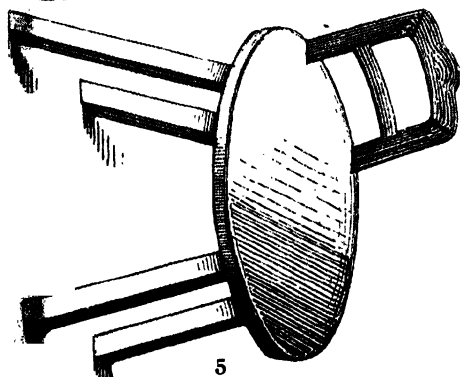
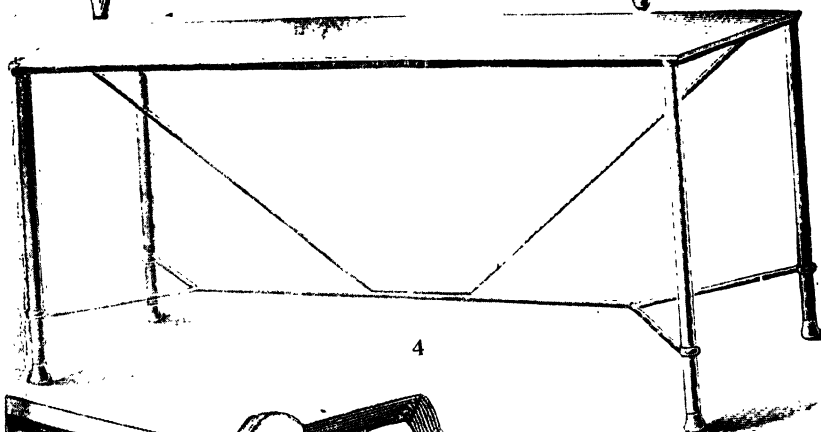
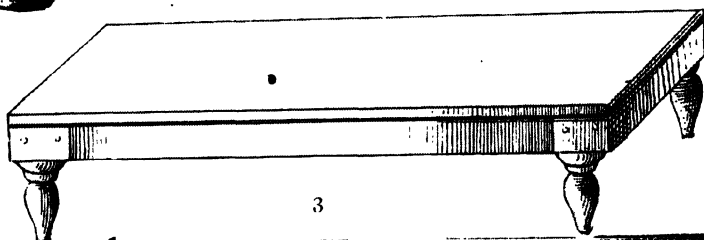
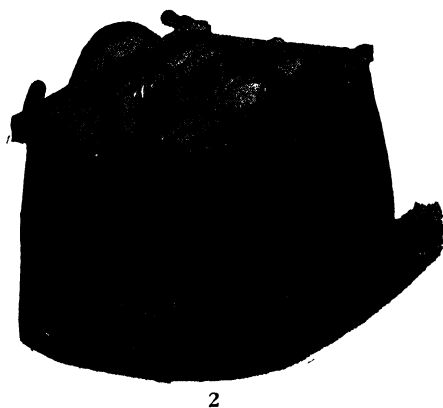


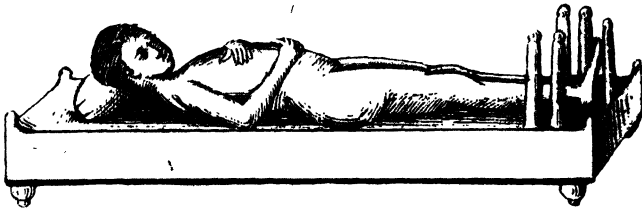
PLATE V.

KAPĀṬA-ŚĀYANA OR FRACTURE-BED OF THE HINDUS.

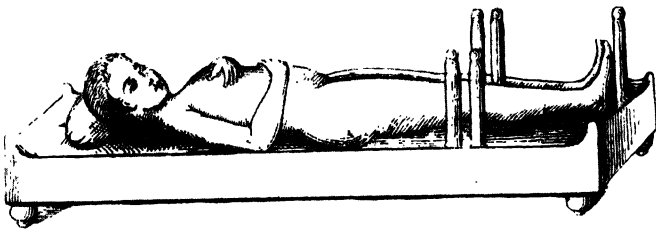
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The Surgical Instruments of the Hindus.

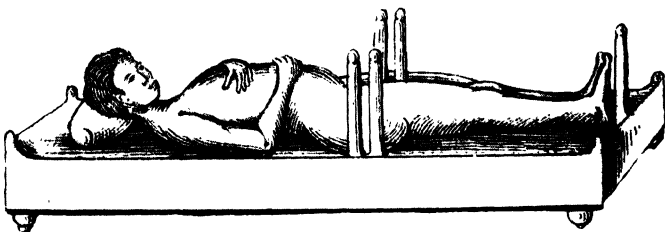
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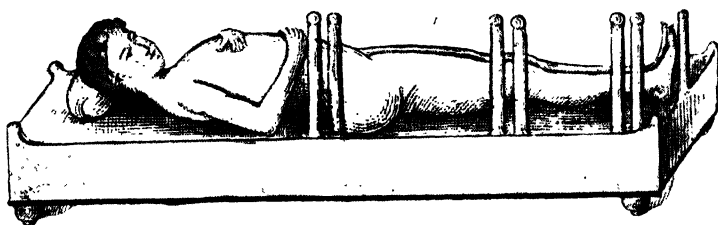
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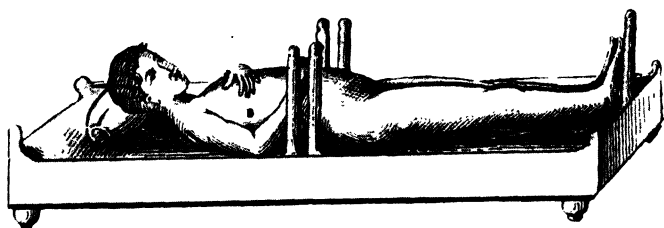
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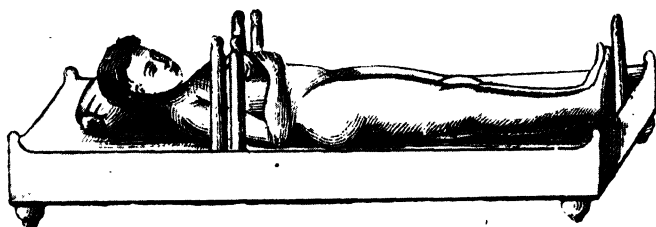
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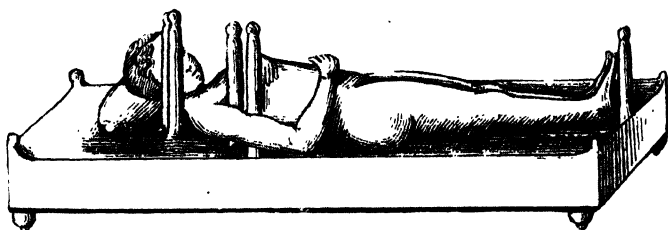
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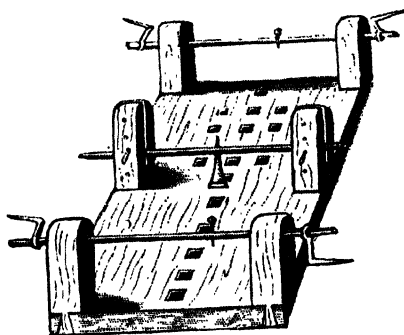
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F. Pillars a foot long.	
G. A cross-beam laid on the pillars FF, which can be placed at different heights by means of holes in the pillars.	

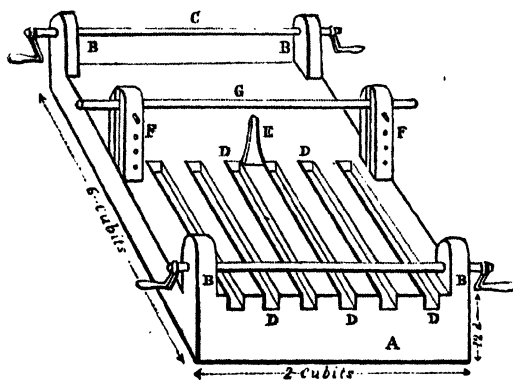
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B. Another lever, held by an assistant, put into one of the grooves of the machine, and intended to act against lever A.

C. Grove in which the end of the lever A takes its point of support.

D. The luxated member.

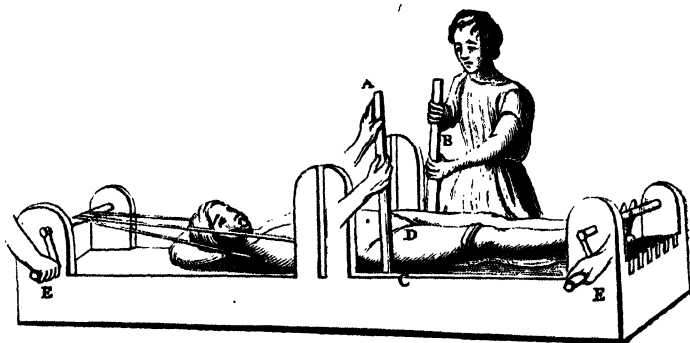
EE. Extension and counter-extension.

Adams. Vol. II. Pl. V. Fig. 1.

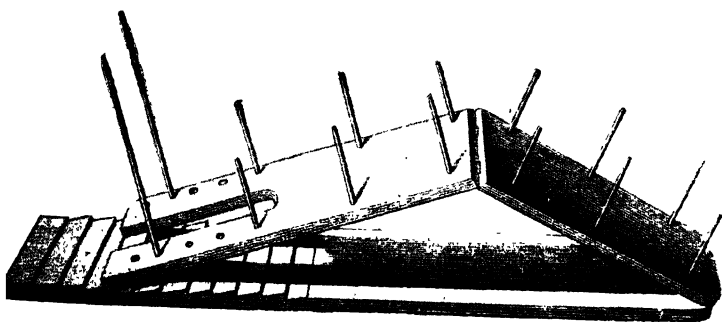
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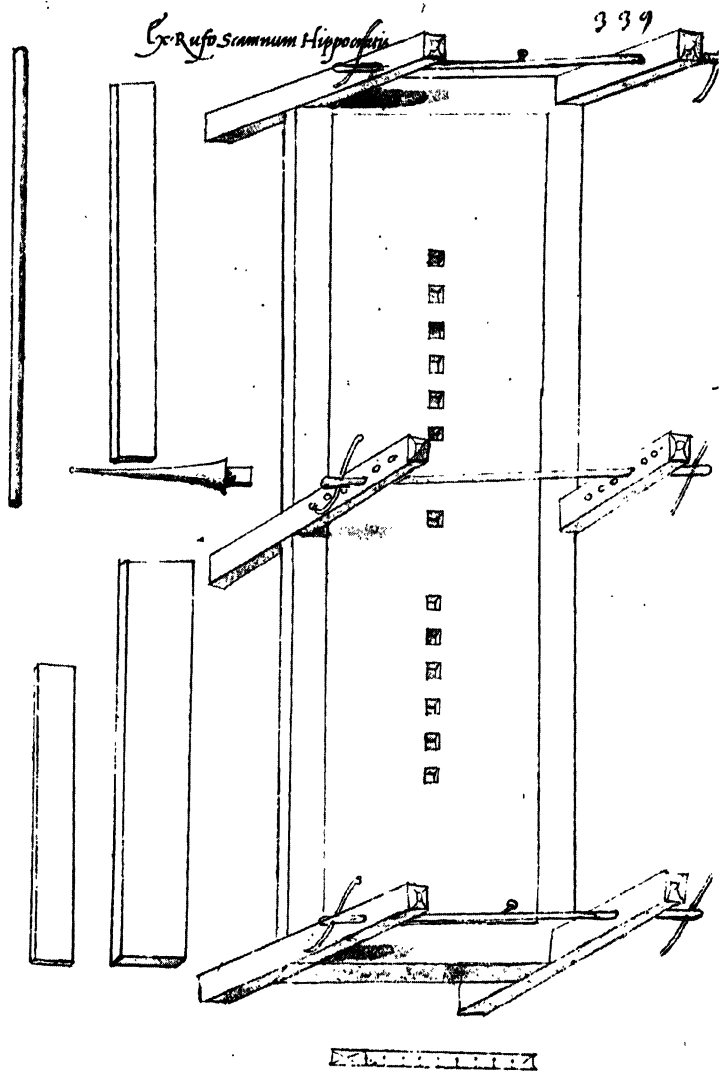
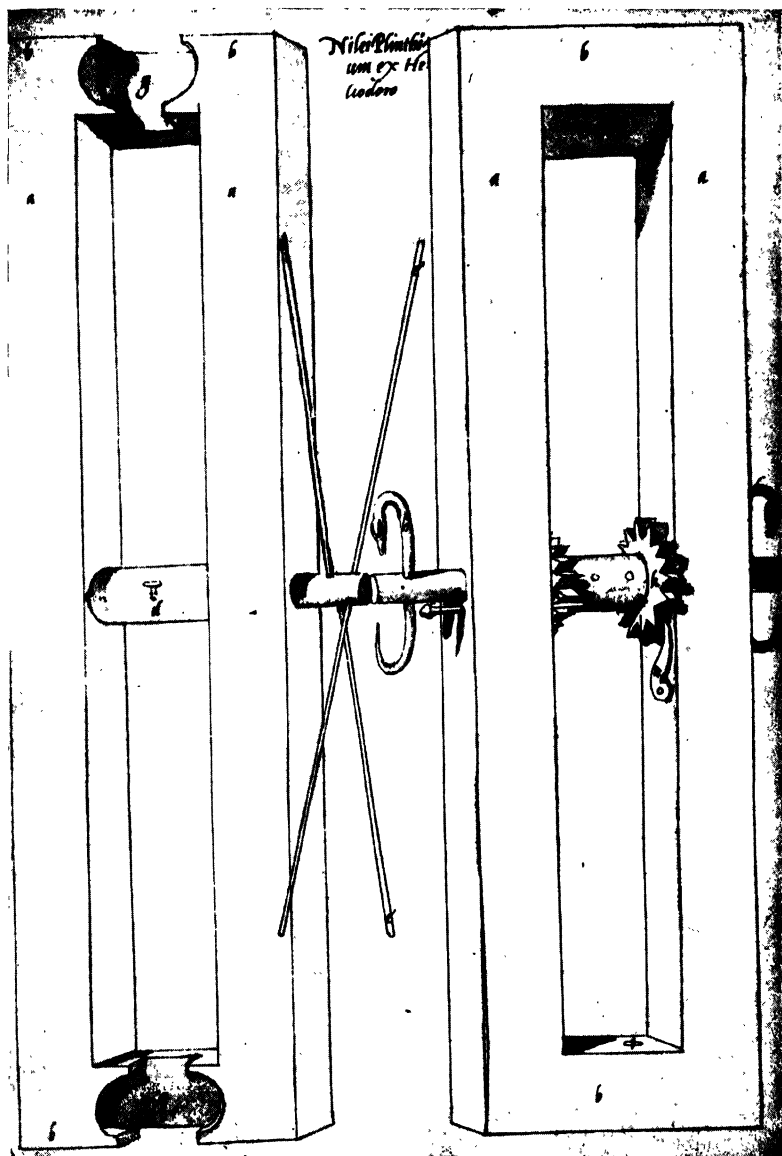


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Plate X.



THE SURGICAL INSTRUMENTS OF THE HINDUS.

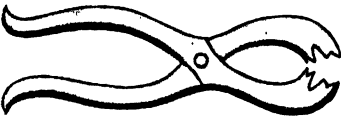
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The Surgical Instruments of the Hindus.

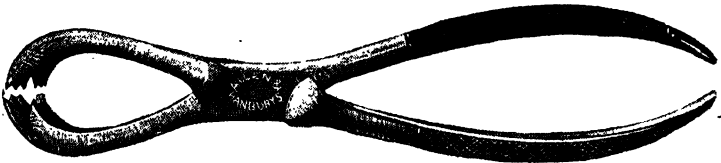
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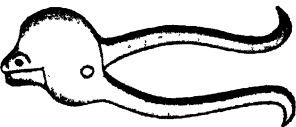
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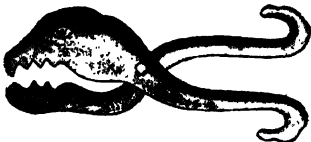
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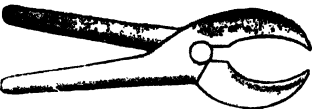
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THE SURGICAL INSTRUMENTS OF THE HINDUS.

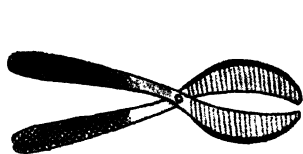
PLATE XII.

THE SVASTIKA YANTRA OR CRUCIFORM INSTRUMENTS.

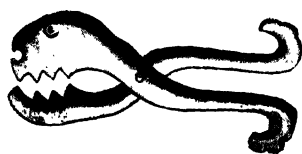
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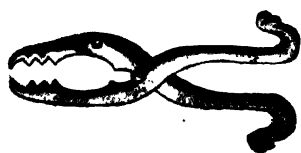
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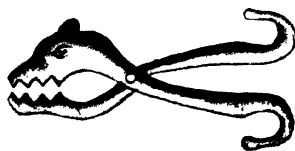
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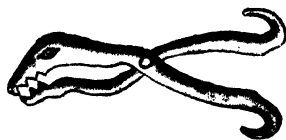
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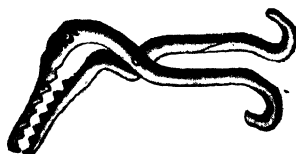
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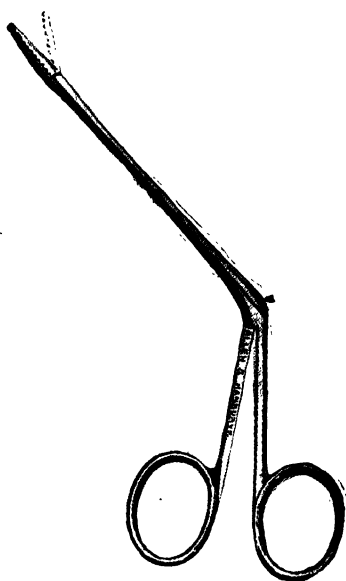
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PLATE XIII.

THE SVASTIKA YANTRA OR CRUCIFORM INSTRUMENTS.

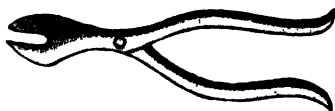
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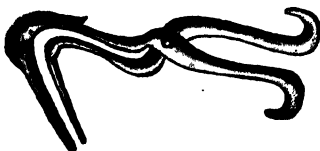
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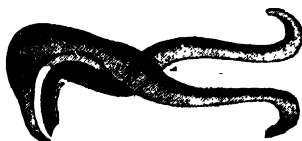
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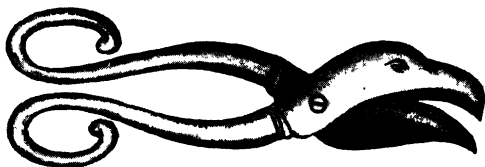
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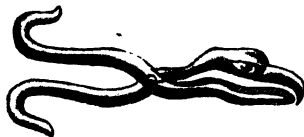
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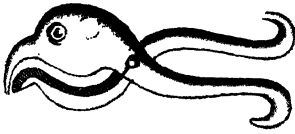
PLATE XIV.

THE SVASTIKA YANTRA OR CRUCIFORM INSTRUMENTS.

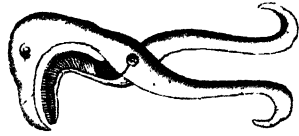
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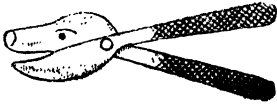
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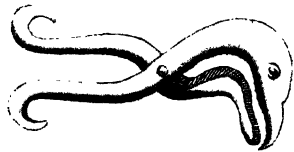
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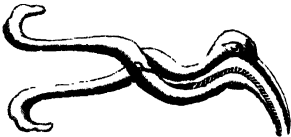
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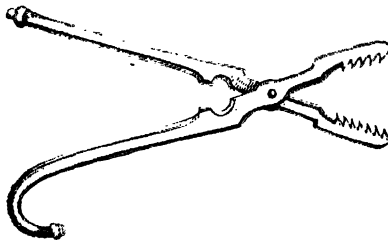
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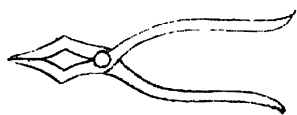
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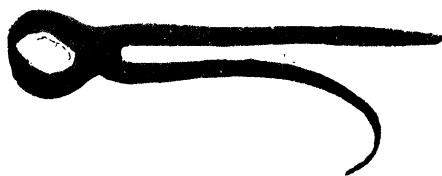
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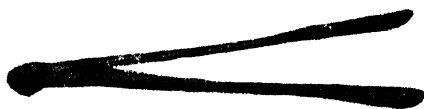
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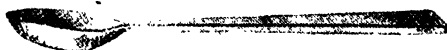
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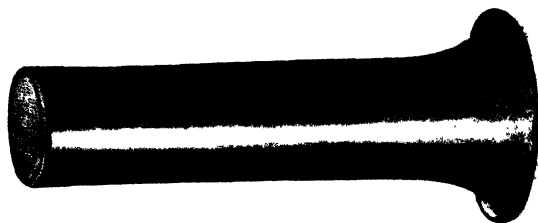
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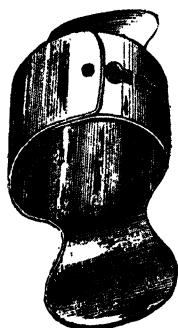
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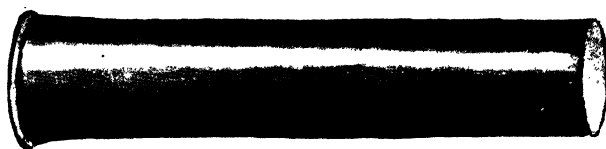
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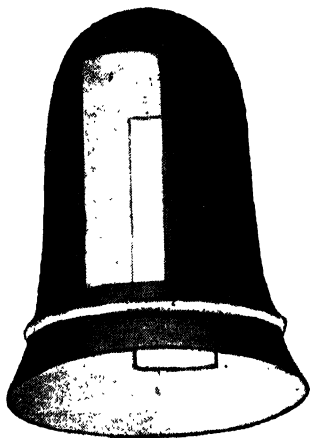
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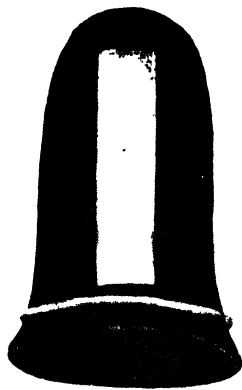
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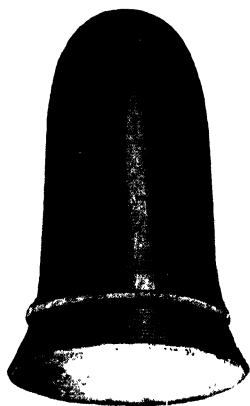
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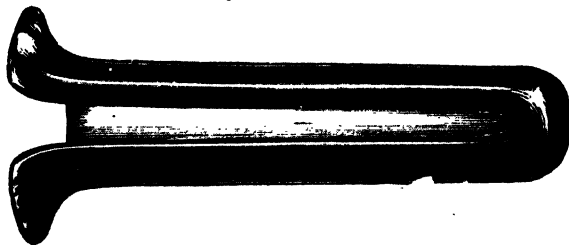
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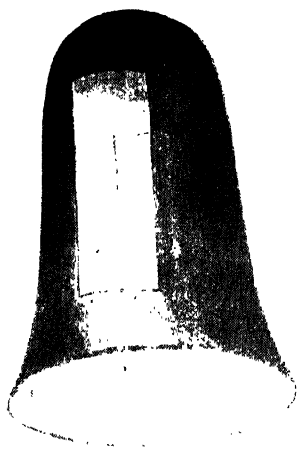
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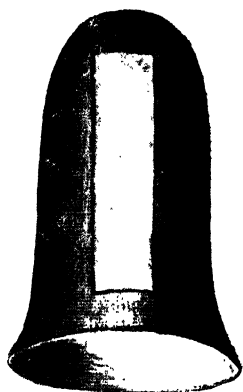
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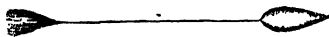
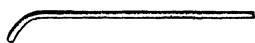
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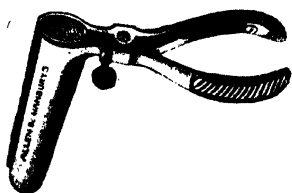
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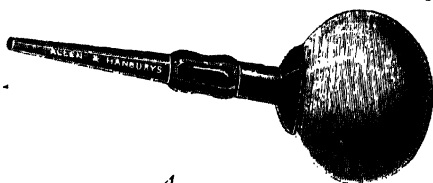
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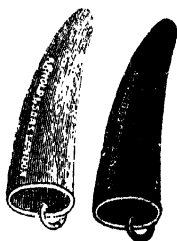
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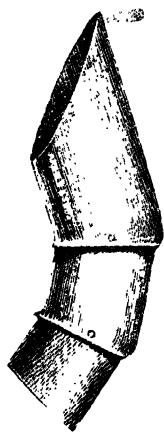
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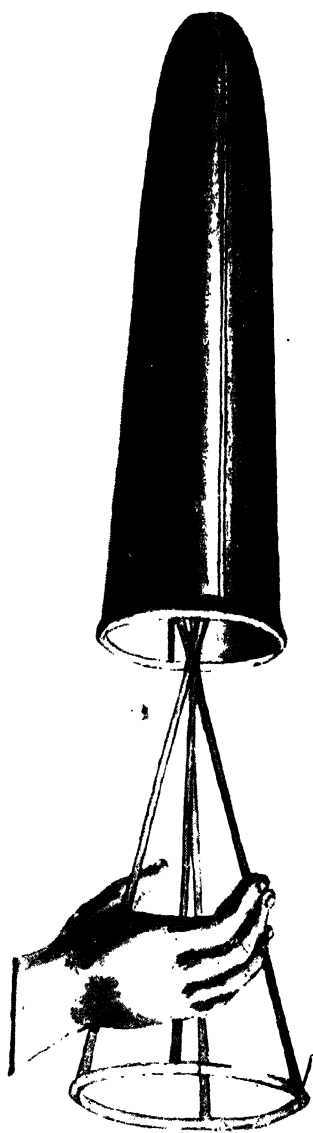
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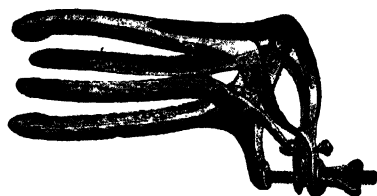
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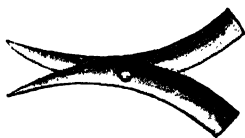
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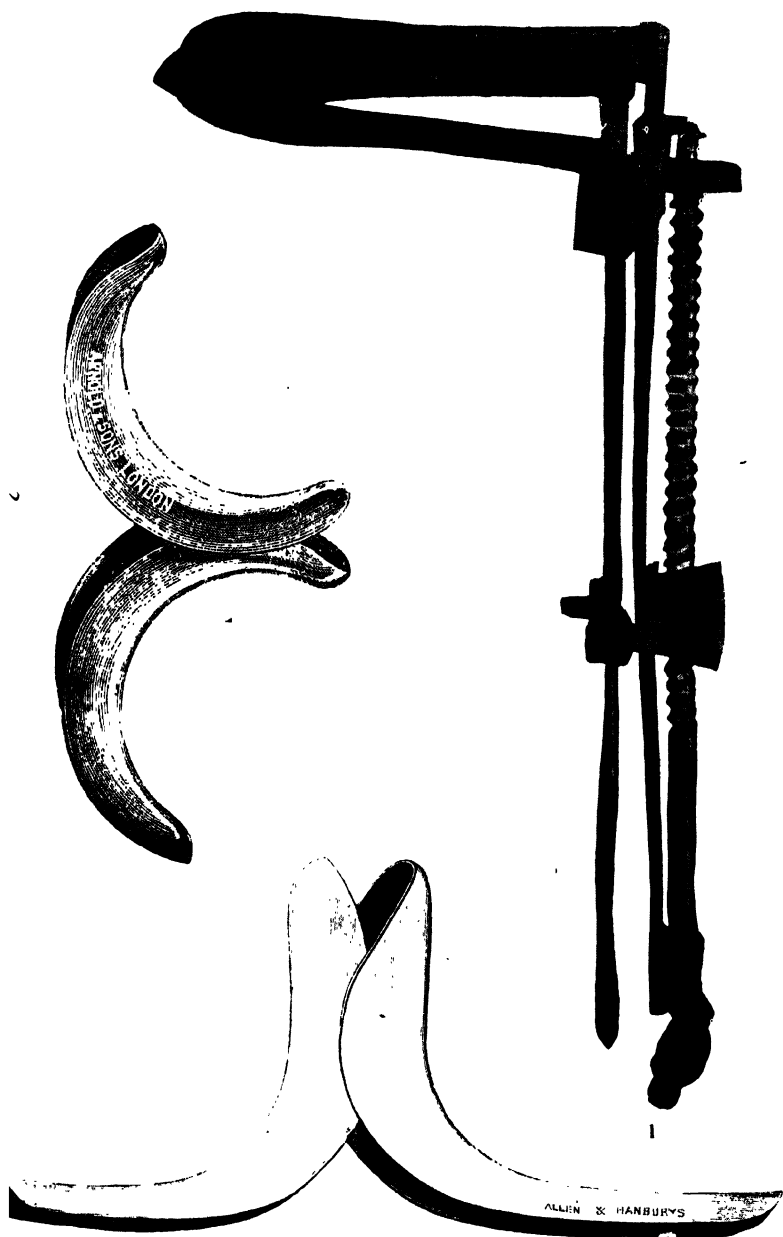
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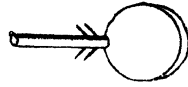
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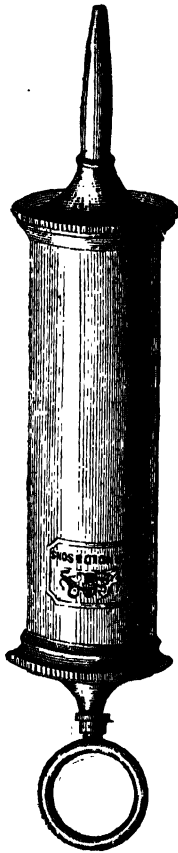
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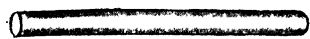
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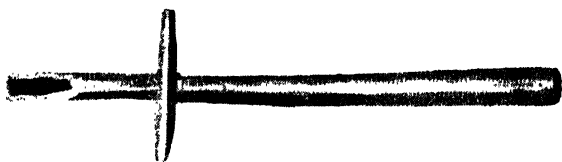
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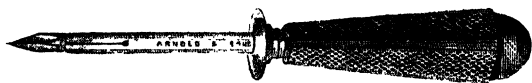
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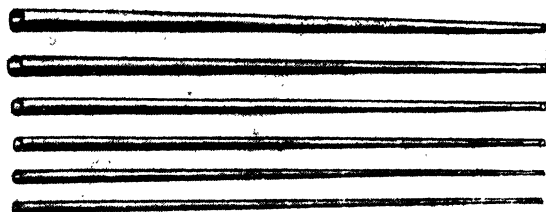
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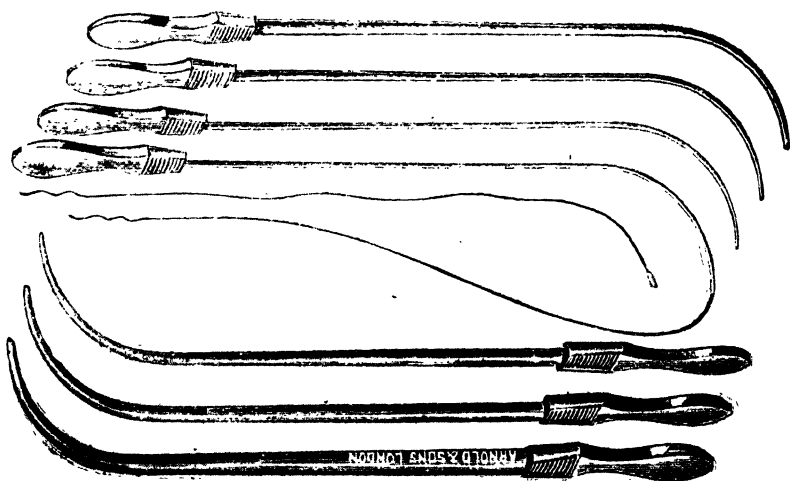
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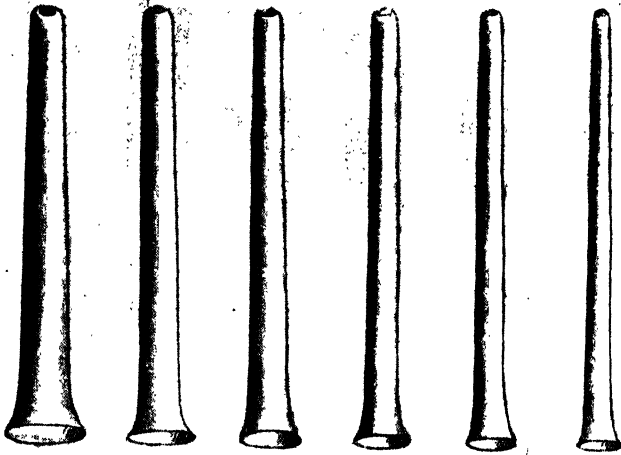
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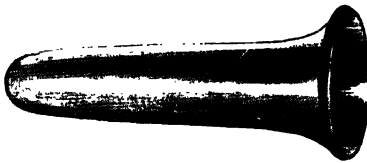
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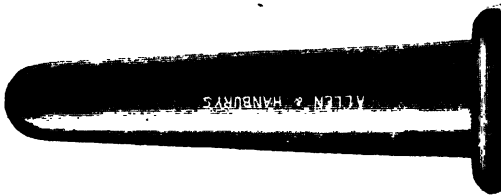
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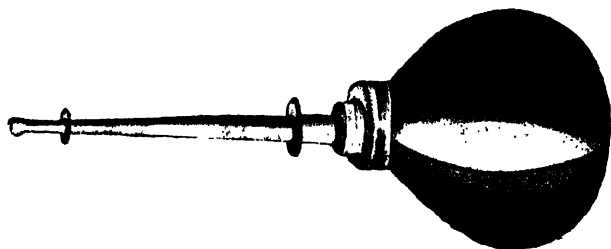
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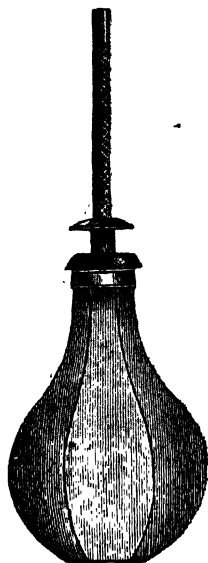
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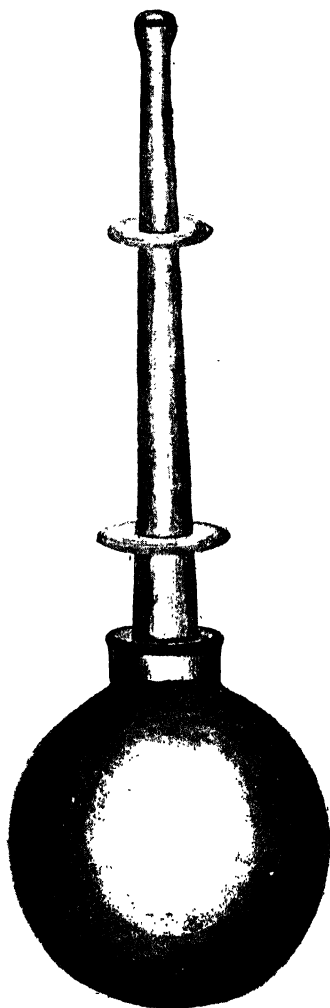
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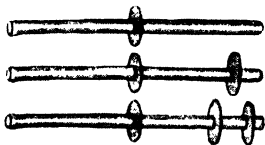
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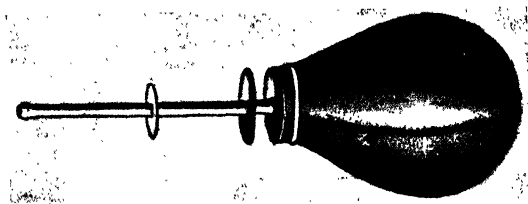
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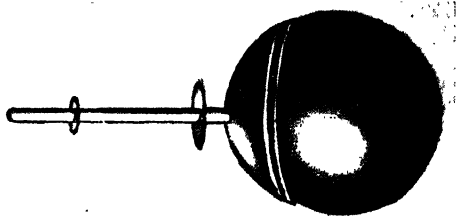
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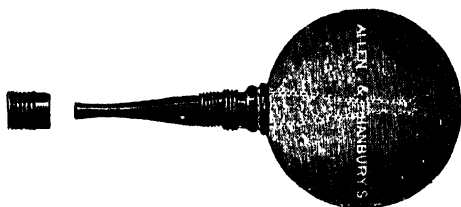
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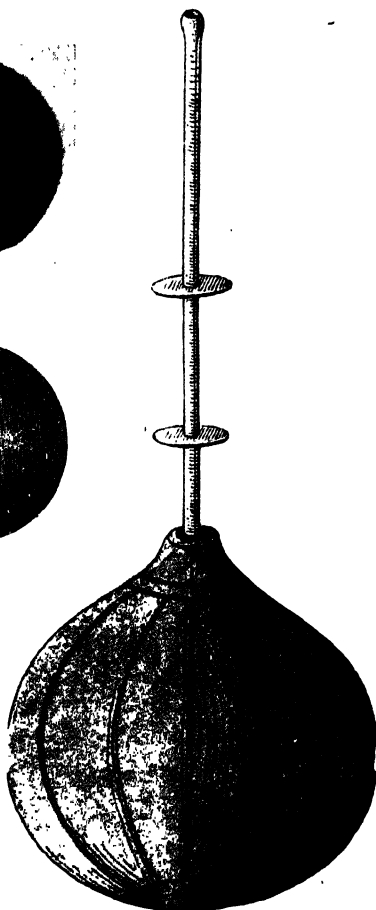


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THE NĀḌĪ YANTRA OR TUBULAR INSTRUMENTS.

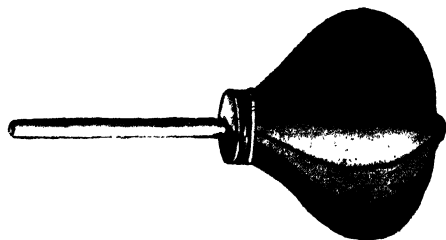
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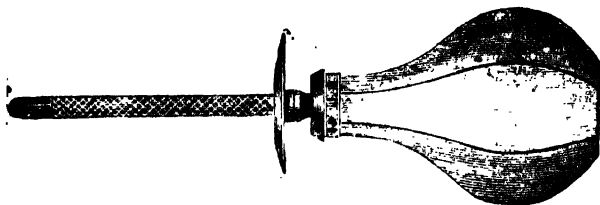
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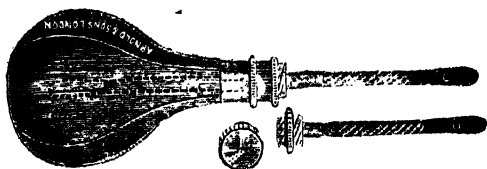
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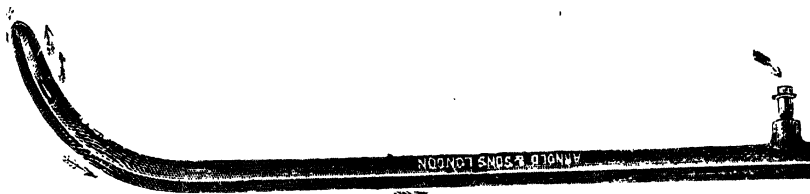
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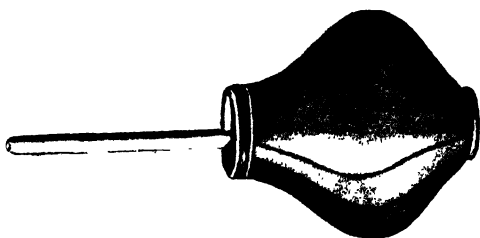
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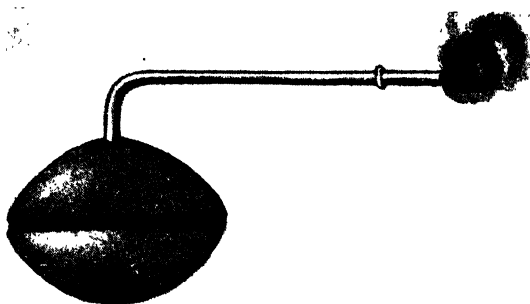
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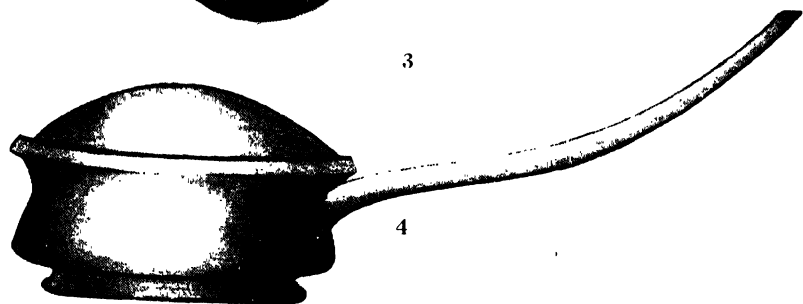
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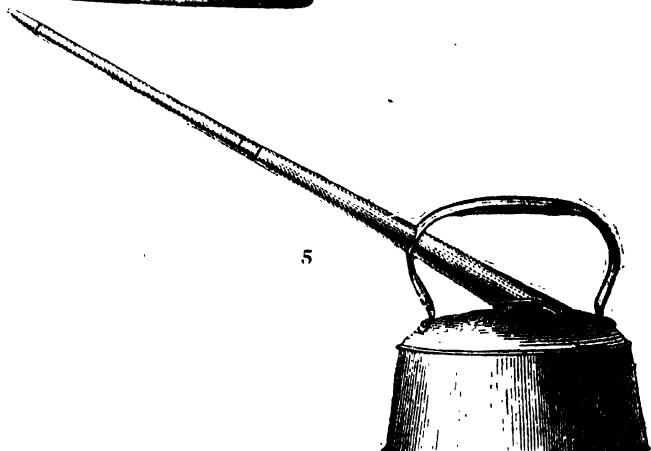
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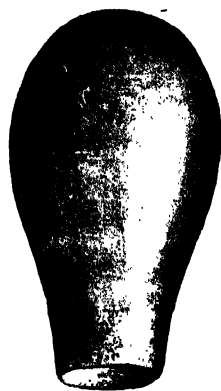
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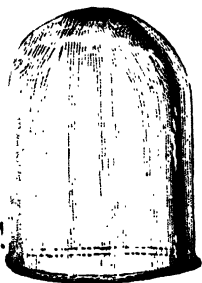
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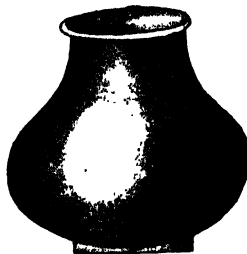
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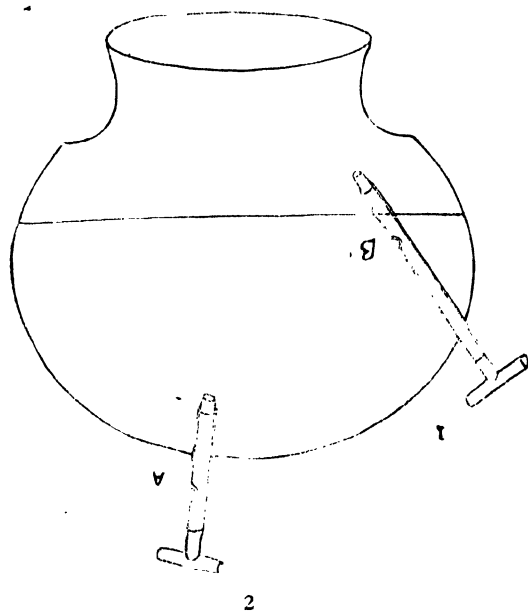
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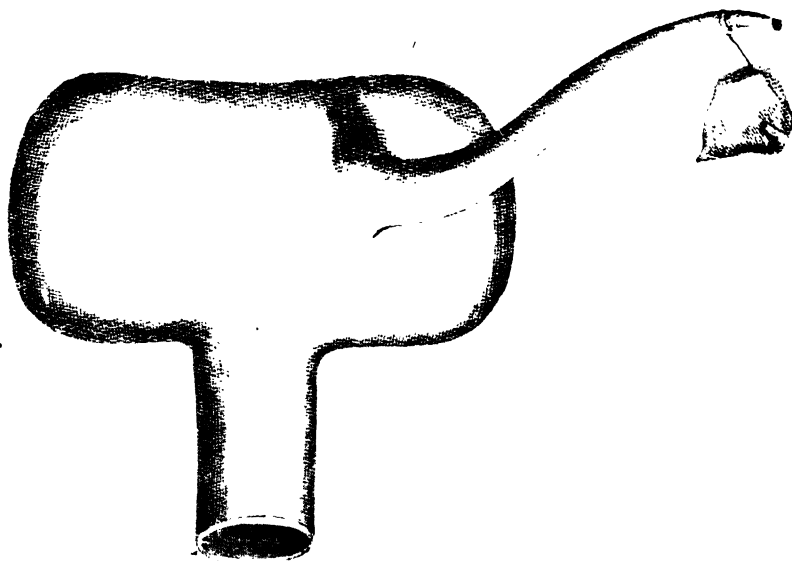
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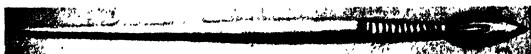
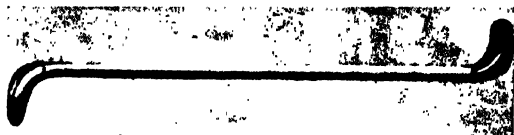
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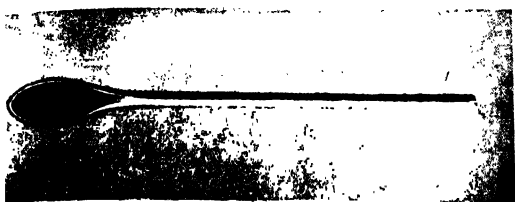
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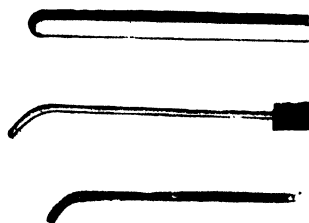
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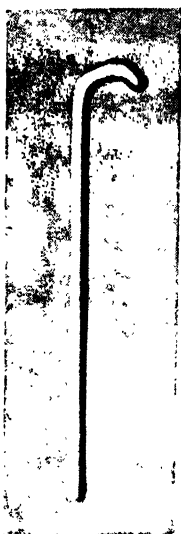
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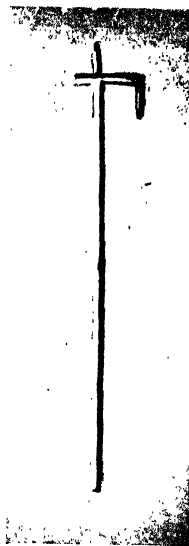
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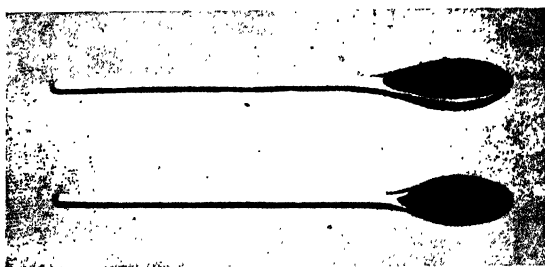
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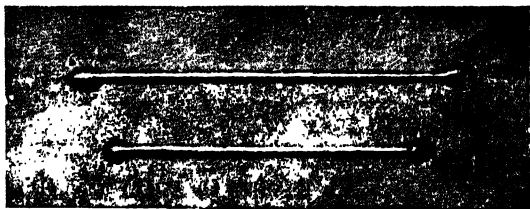
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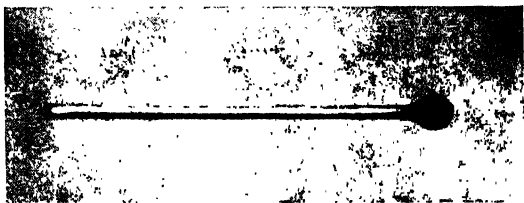
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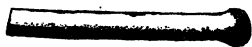
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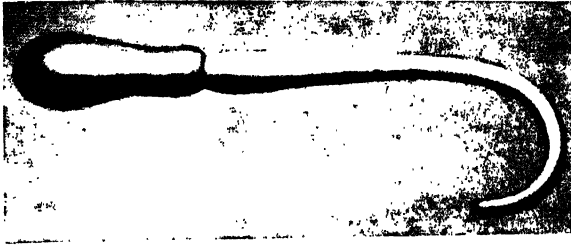
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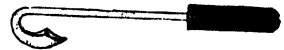
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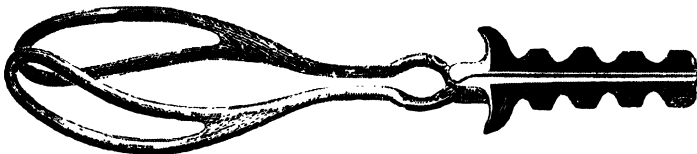
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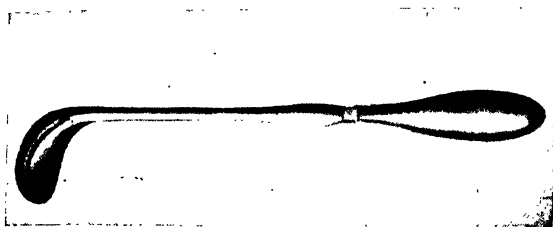
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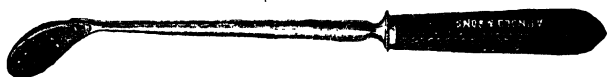
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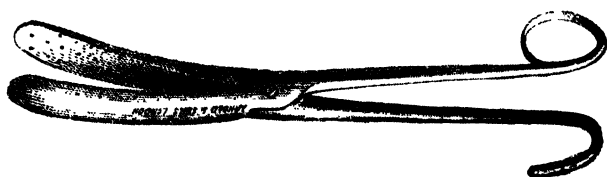
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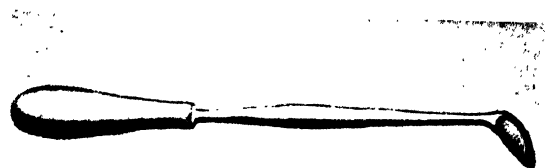
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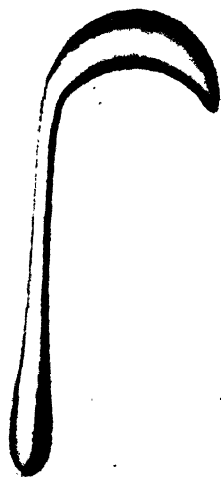
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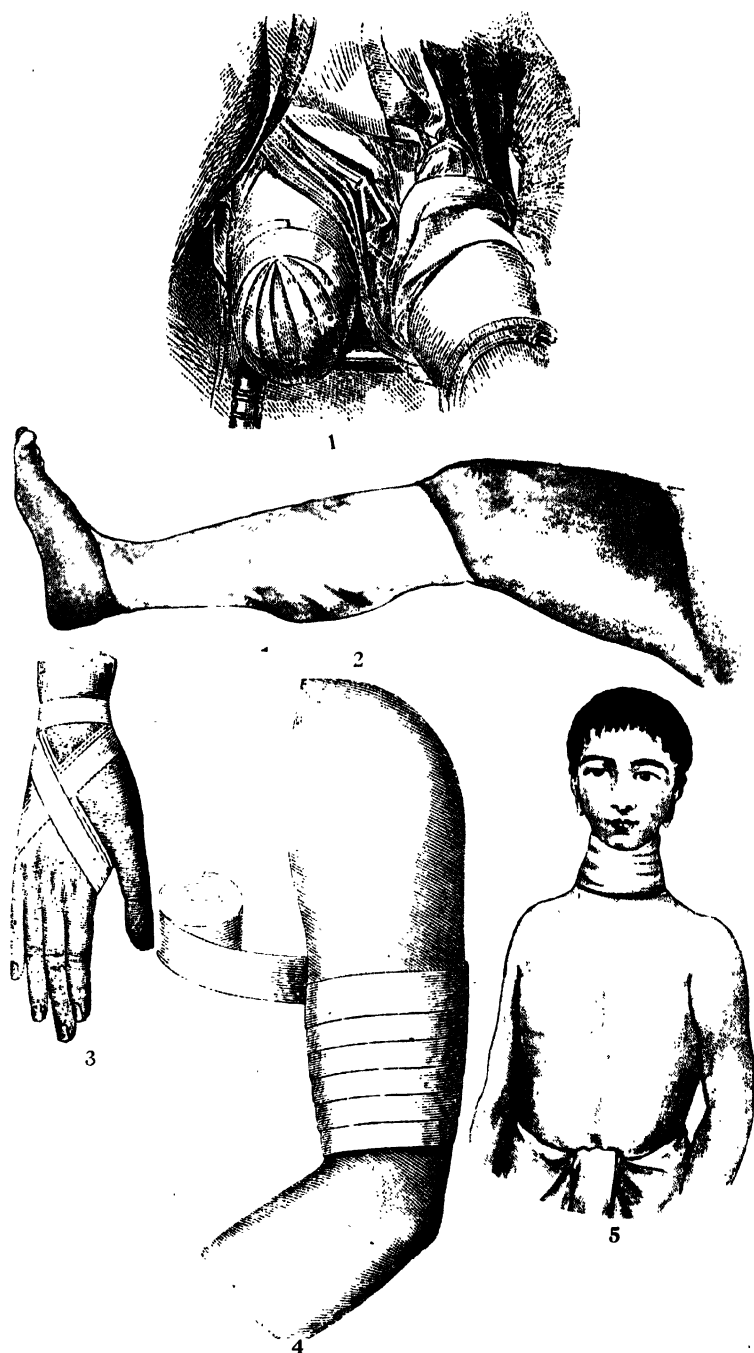
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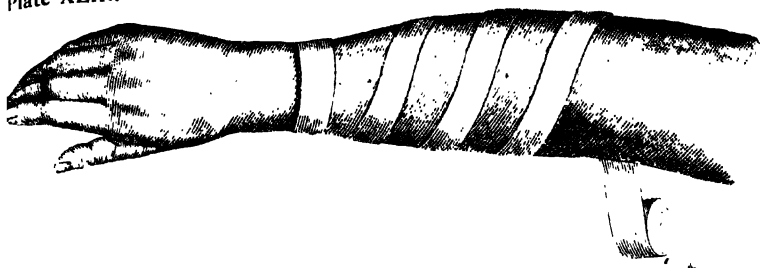
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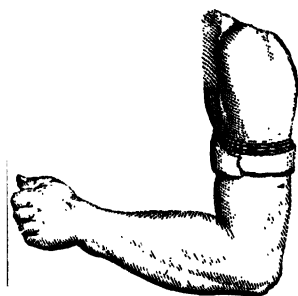
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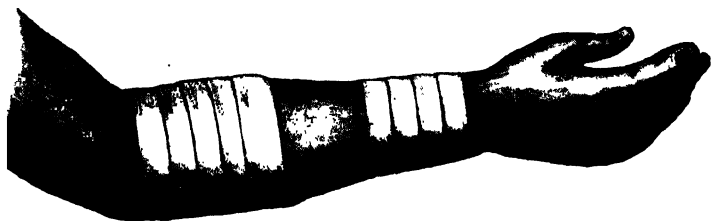
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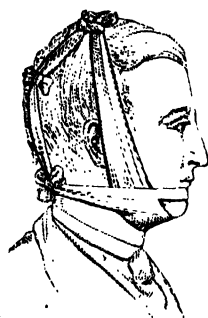
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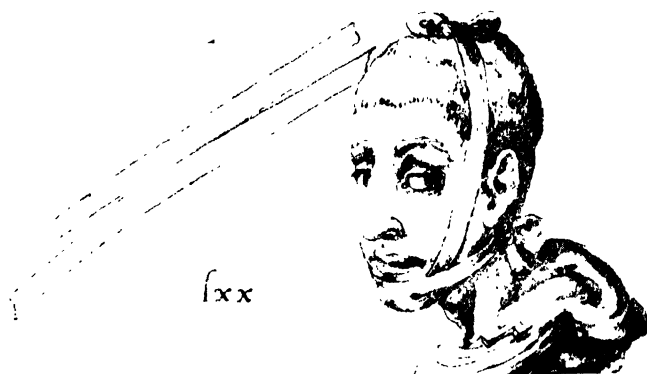


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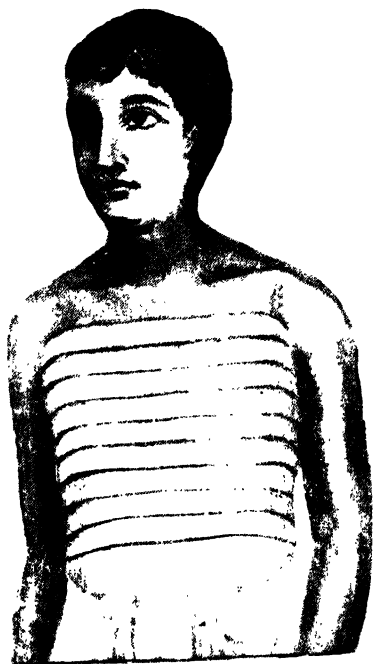
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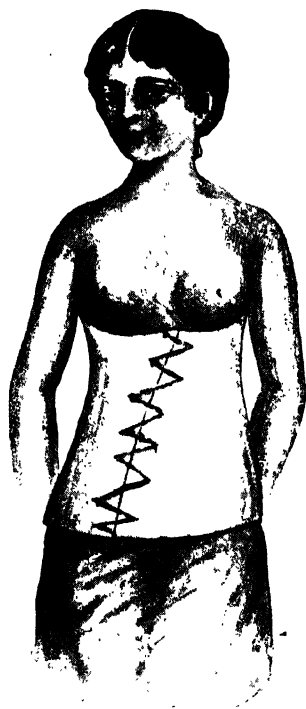
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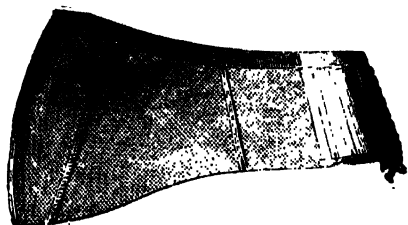
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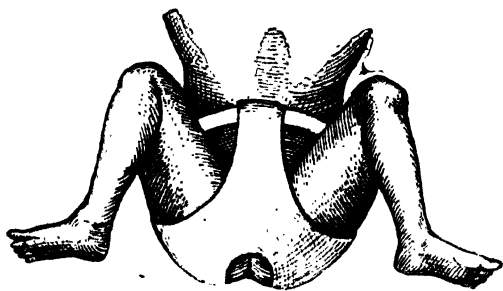
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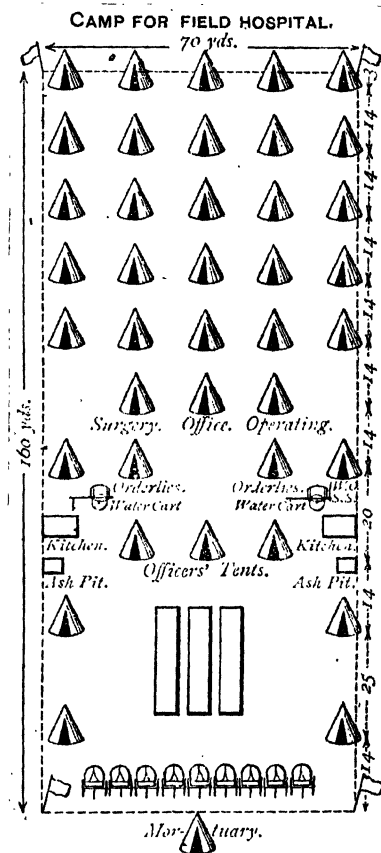
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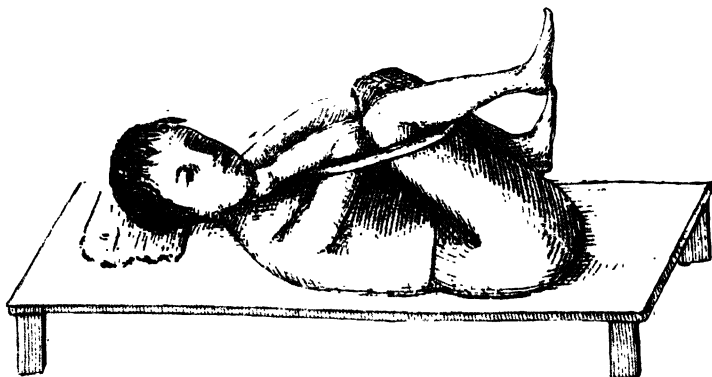
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YANTRA-ŚĀṬAKA OR BINDING APPARATUS.

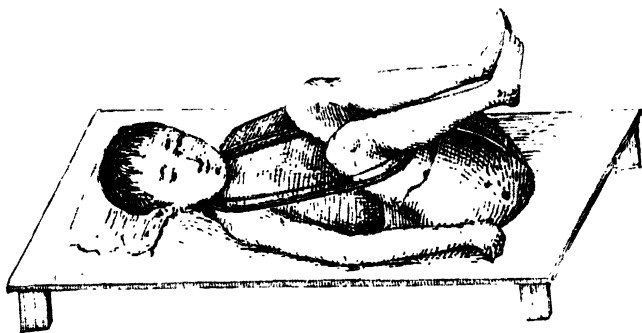
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Yatra Śāṭaka or Binding Apparatus.

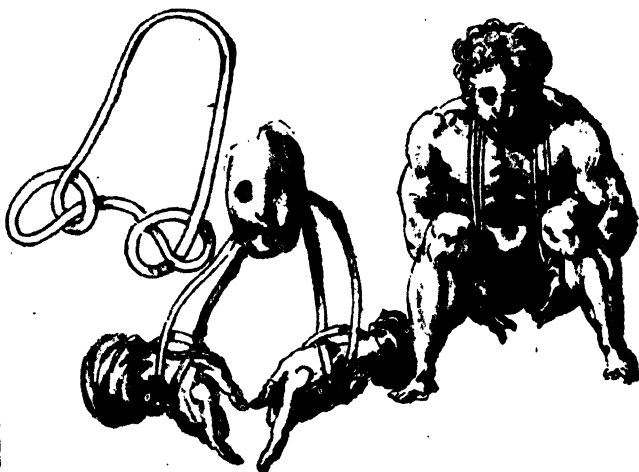
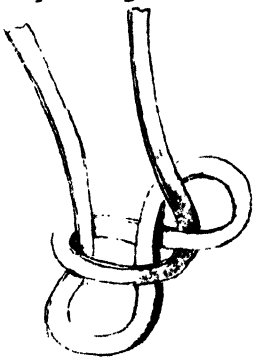
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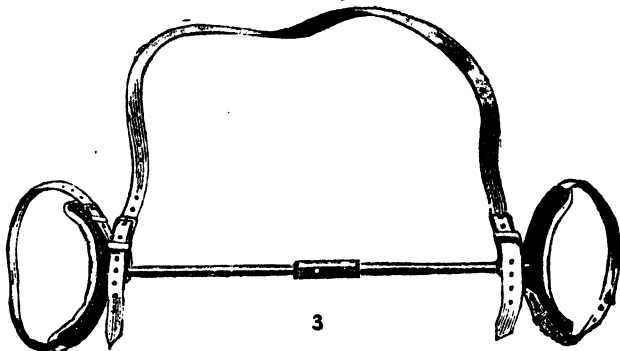
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sup' simi injeitur) qua via*

*em appellat qm sim
inseri possit*



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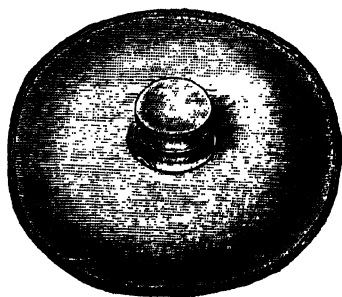
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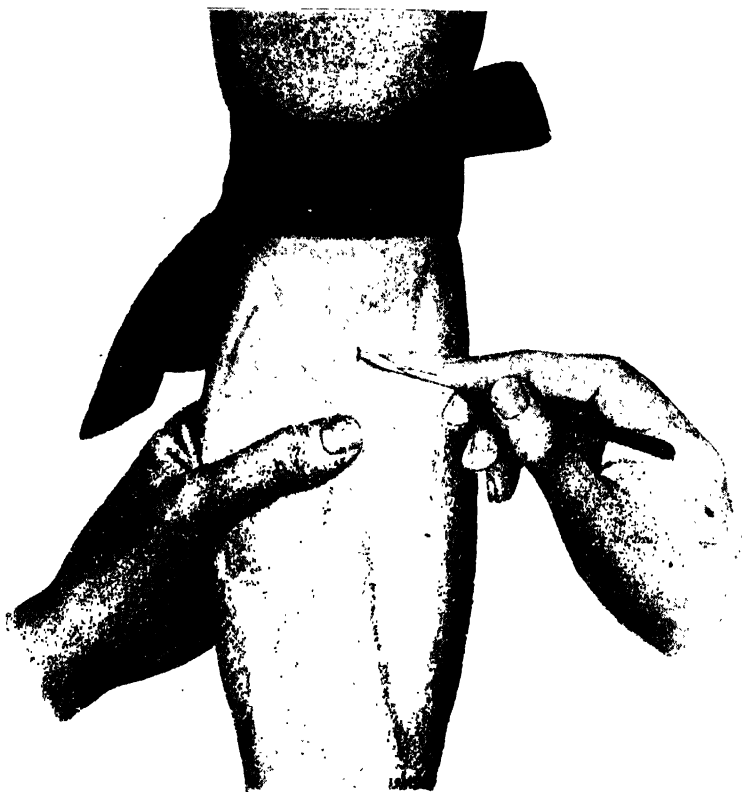
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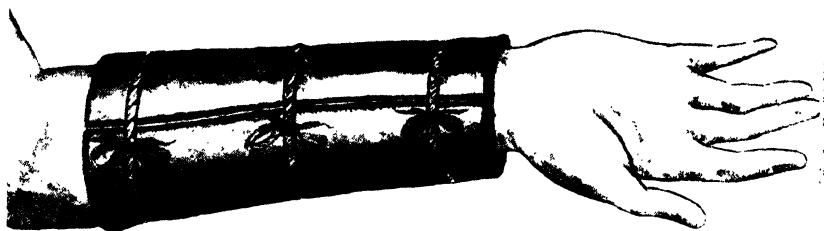
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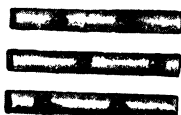
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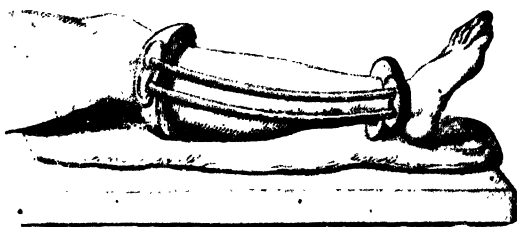
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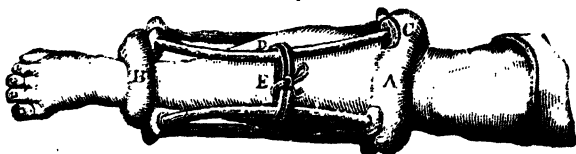
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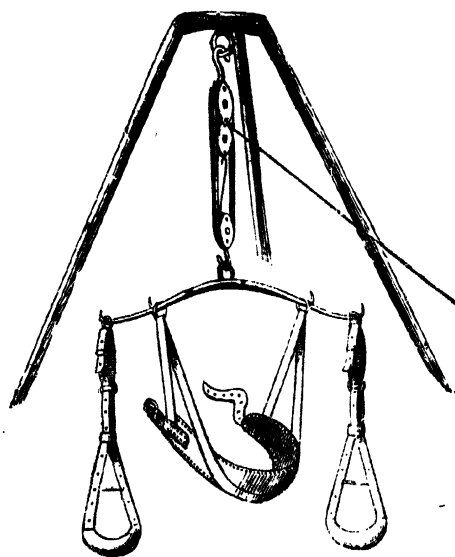
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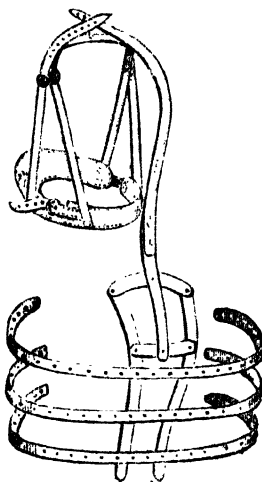
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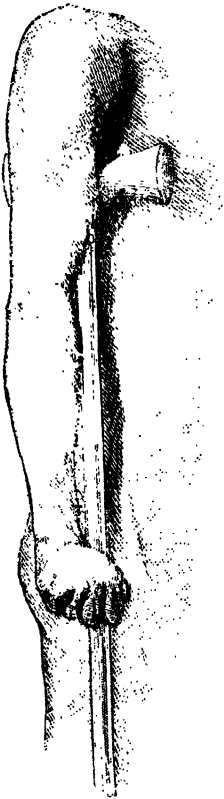
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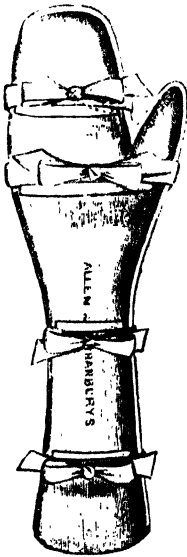
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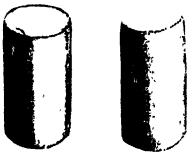
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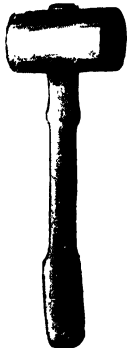
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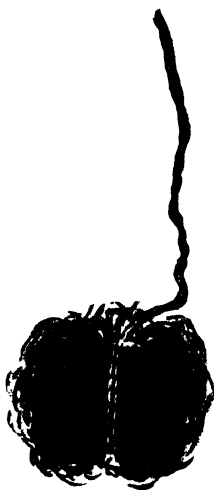
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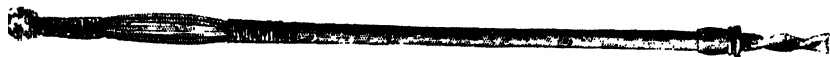
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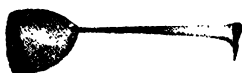
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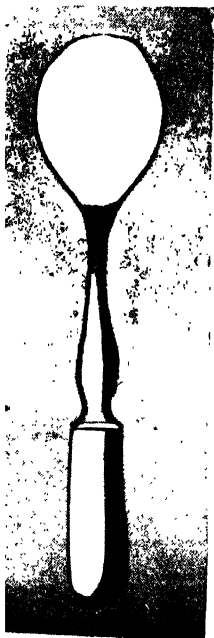
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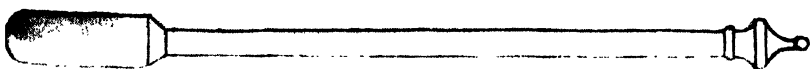
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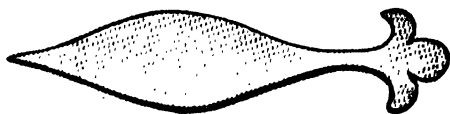
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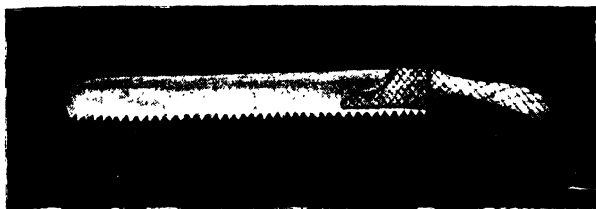
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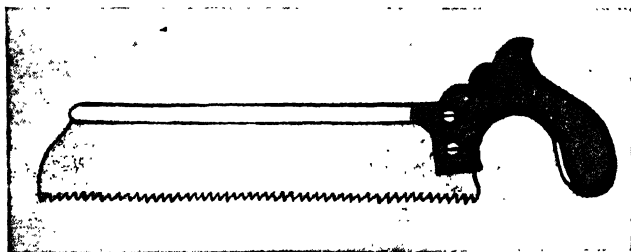
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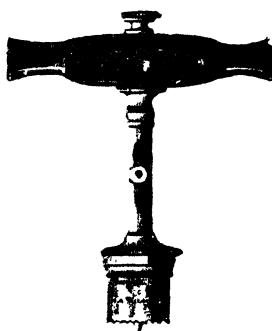
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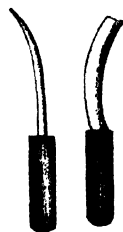
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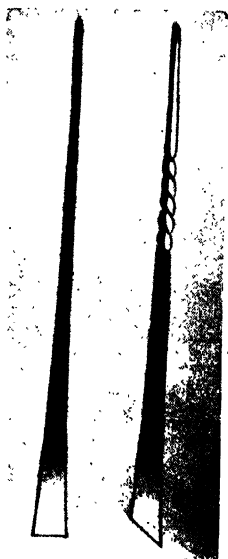
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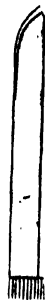
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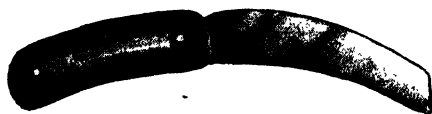
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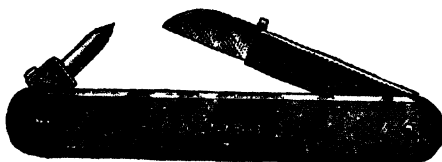
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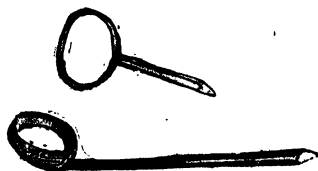
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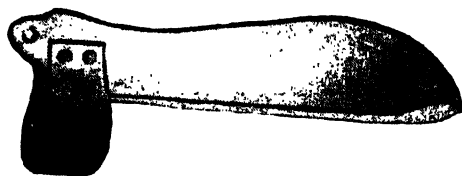
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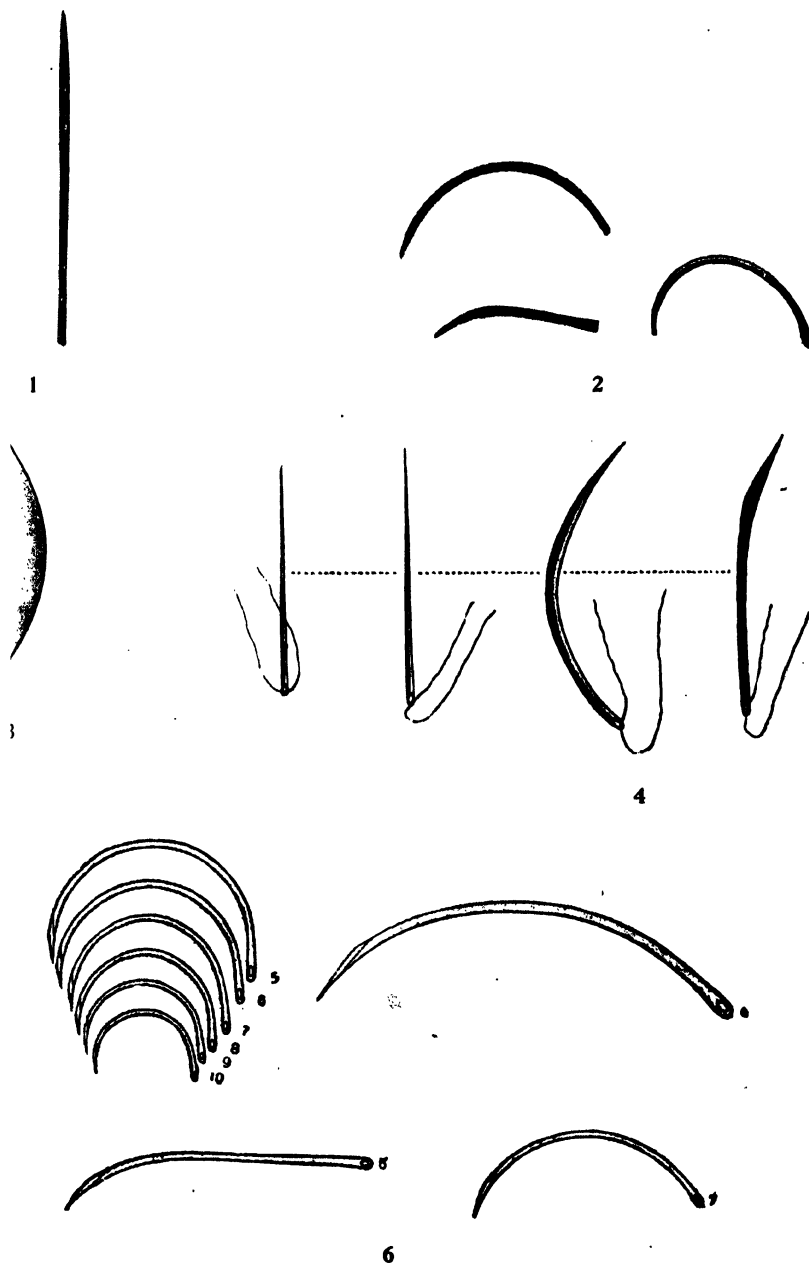
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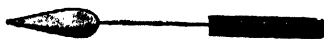
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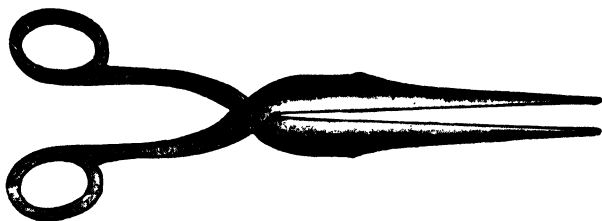
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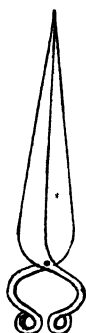
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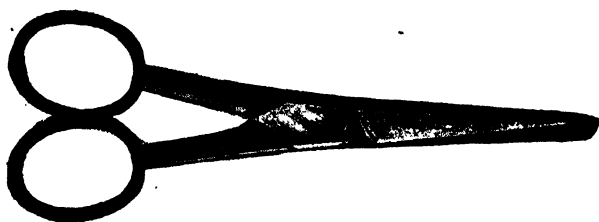
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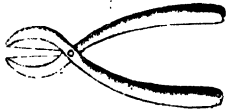
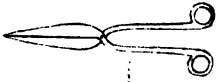
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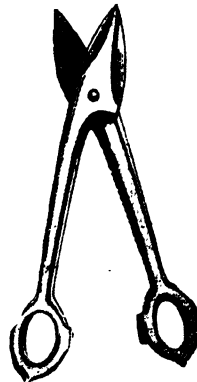
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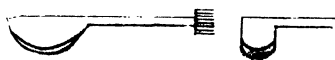
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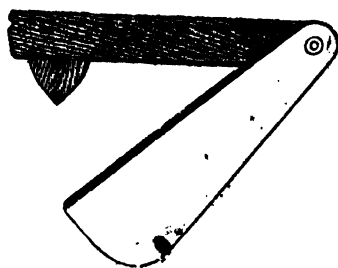
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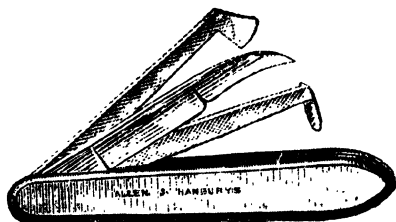
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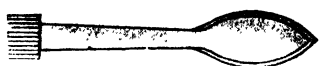
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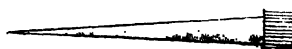
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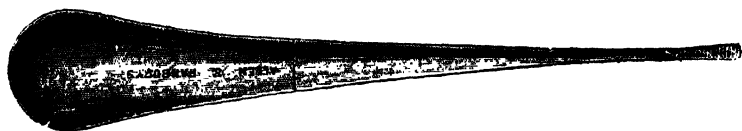
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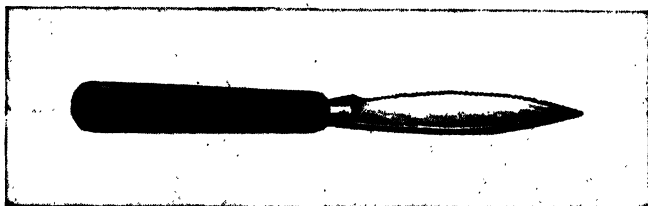
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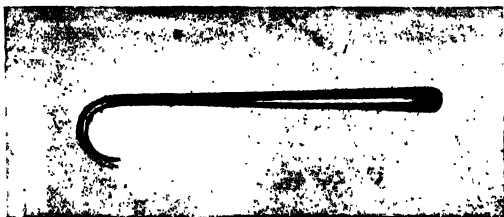
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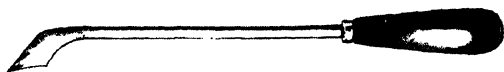
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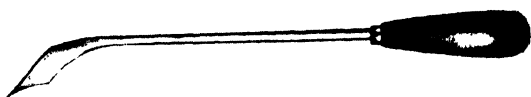
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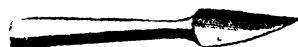
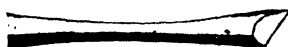
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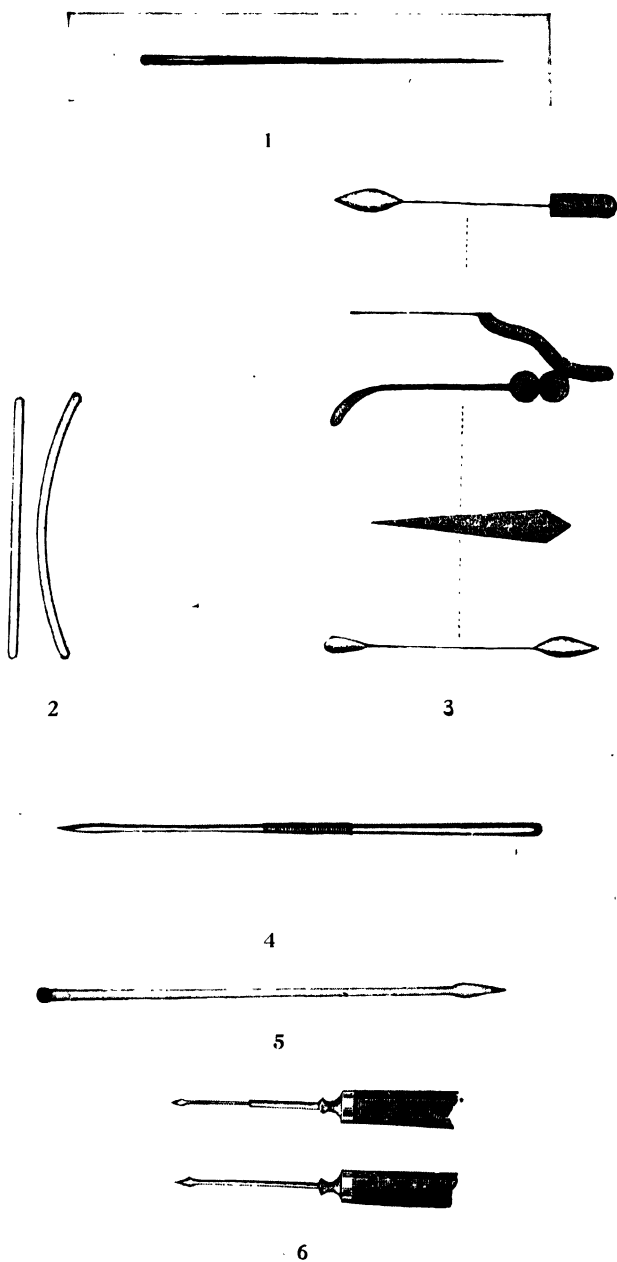
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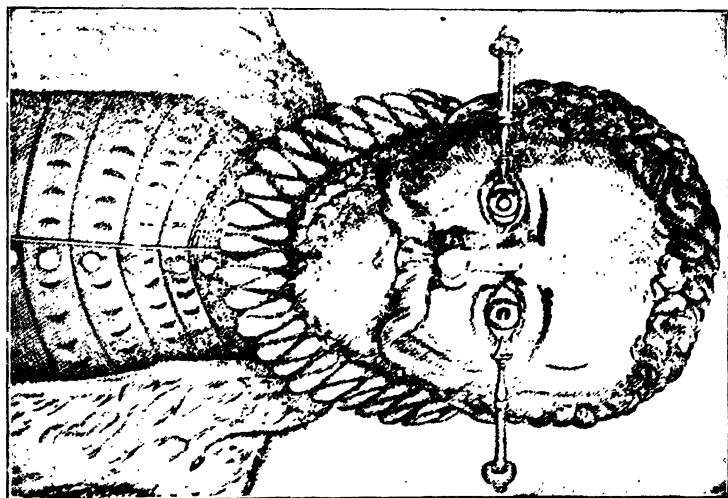
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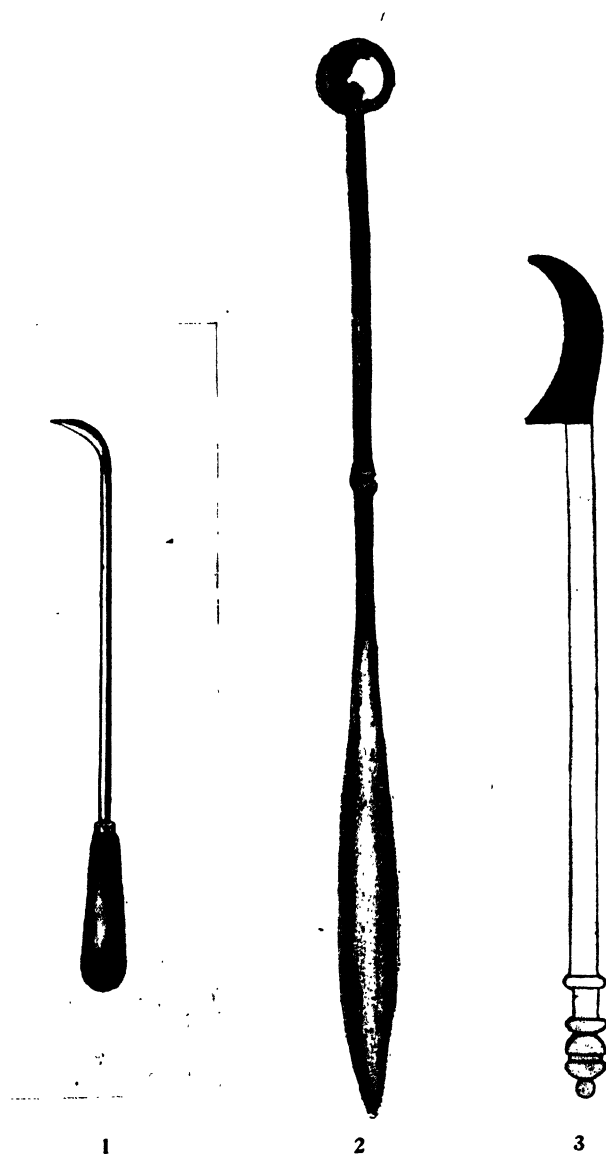


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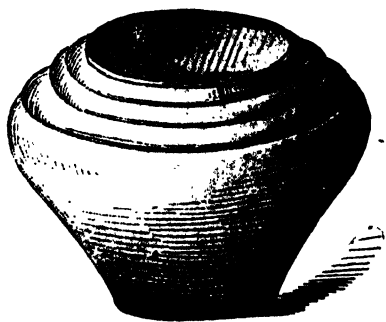
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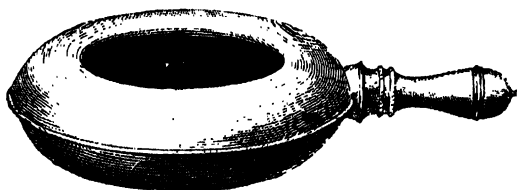
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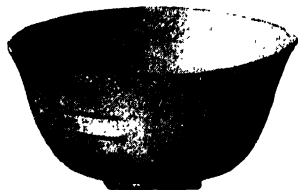
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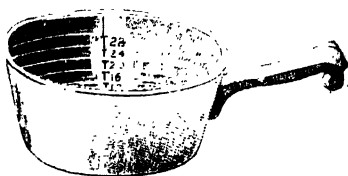
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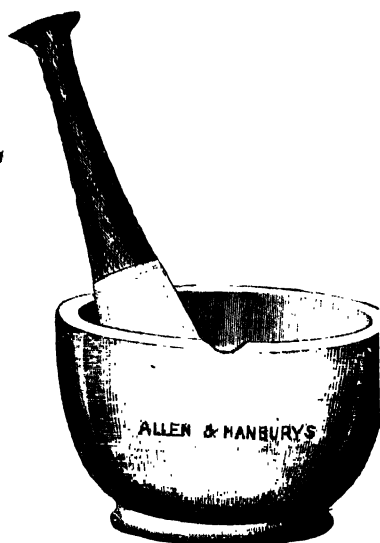
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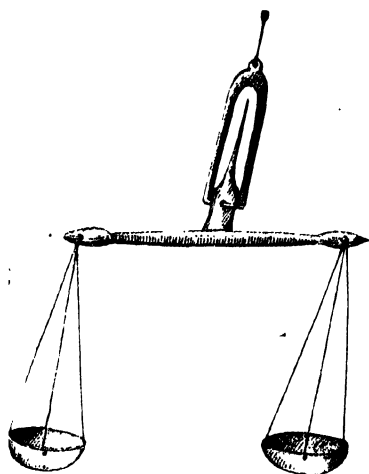
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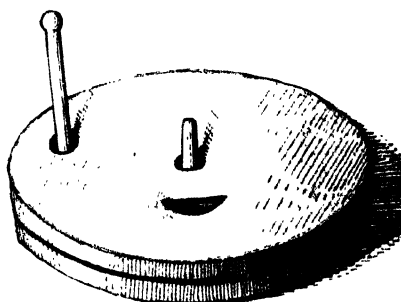
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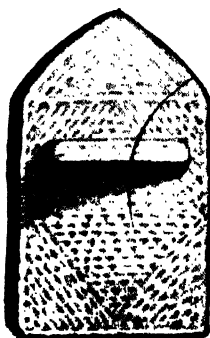
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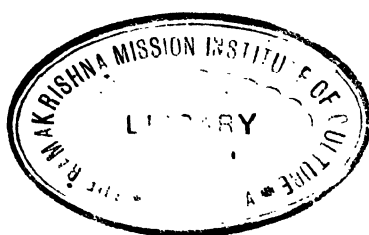
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6



7



THE SURGICAL INSTRUMENTS OF THE HINDUS.

PLATE LXXXII.

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2.—Vapour Bath	322
3.—The same (modern). B. B. Fig. 407	322
4.—Cloth tent	322
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The Surgical Instruments of the Hindus.

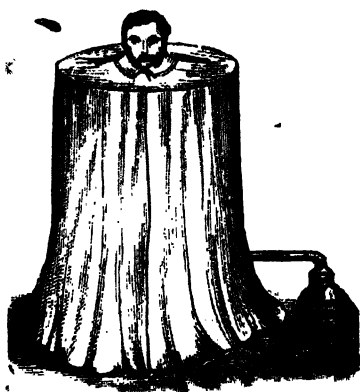
Plate LXXXII.



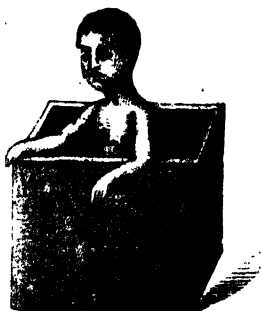
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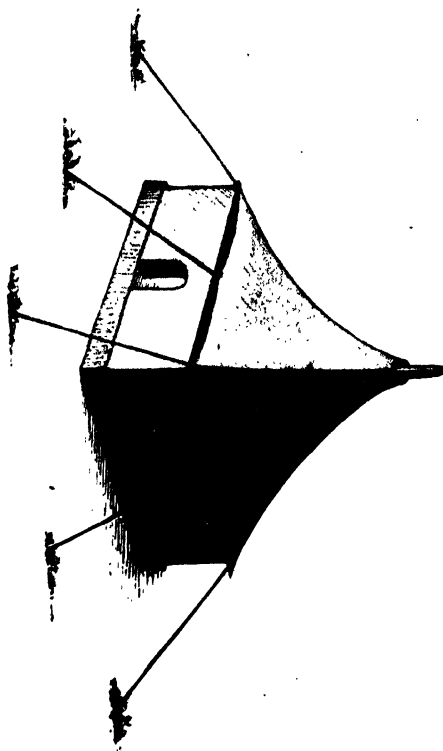
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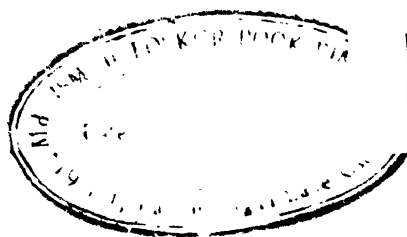
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